# National Emergency Services Academy, Civil Air Patrol Aircrew Briefing Guide

This Briefing Should...
Take no more than 10 minutes
Be Conducted With the Entire Crew
Occur After Mission Planning Is Complete

Only brief asterisked items (\*) if applicable to the specific mission

#### 1. Roll Call

Introduction

Currency

Check ID Cards and Documents

Time Hack

#### 2. Flight Planning

Takeoff/Landing Performance

**Current Charts** 

Airport Facilities Directory

Aircraft Tail Number and Callsign

Flight Plan

**NOTAMS** 

Weather

#### 3. Safety

"Knock It Off" or "This is Stupid" Climb to a safe altitude immediately

I'M SAFE Checklist

Operational Risk Management

Pilot Flies to Avoid Target Fixation

Observers Call Traffic on Clock (60% accidents occur at uncontrolled fields)

Honor Ingress/Egress Altitudes

Remove Rings and Jewelry

# 4. Emergencies

Climb if Possible

Critical - Engine Failure - Land

Non-Critical - Climb and Work it out

Observer Runs the Checklist

Birdstrike - Both On Controls and Climb

Controllability Check - If Structurally Damaged

Engine Failure - Crash Position/Open Doors

Egress - Observer Grabs Extinguisher, Scanner Exits Pilot's Side (Seat is forward), Pilot exits observer door (seat still aft), avoid prop, meet at 12 O'clock

Engine Fire On Start - Radio Call for Fire Trucks

Night Electrical Failure - Observer Spots the Airspeed with the flashlight

# Physiological Incident

#### 5. Hazards

Route - Birds, Aircraft, Airports, Aircraft Transitioning to other search areas, IR/VR Routes, Victor Airways

Terrain - Mountains, Climbing Terrain, Towers

Safe Altitude on Chart - Rounded Up to 100 feet plus

100 feet, set a minimum altitude for emergencies

Night/Poor Visibility Disorientation

Airsickness and Dehydration

## 6. Crew Duties

Positive Aircraft Control

Two Challenge Rule

Call 100 feet, 10 kts, 1/4 mile and not correcting

Seatbelts on at all times, door and seat belt operation, no smoking

**GPS** and Radios

Don't Look for a missing aircraft, look for reflections, trash, burn marks, foliage discoloration, parts, etc.

Sterile Cockpit In Critical Phases of Flight No non-mission related discussion)

Who Closes Flightplan

## \*7. Communications

Comm Flimsy Complete

Freqs

Callsigns (Victor CAPF, FM Sortie #)

Recall Codewords

Check In Times (Use a timer) Consider Ops normal with location

Radio Checks in chocks/Takeoff/Landing

Don't Transmit the Find Until We Discuss It

Has local law enforcement been contacted to provide transportation on remote missions without ground team support

*8. Mission Profile
Search Area
Search Altitude (MSL/AGL)
Top Search Altitude
Track Spacing What Lat/Longs?
Time In Transit
Time On Station
Emergency Safe Altitude
Ingress/Egress Altitudes Consider Overflight for SA
Search Airspeed Flaps
Go West to Increase Lat/Long Numbers When Flying, SE corner, 7.5 North, 7.5 West
North and South Tracks

Aux Field Information Reviewed Rendezvous Information on Comm Flimsy Aircraft Will Fly Daisy Chain at 75-90 Kts over GT Independently Plot Lat/Long and Compare Turns inside grid vs outside (gives observer a break)

\*9. Electronic Search

**SARSAT** Coordinates

Listen on Nav/Comm with Squelch Off

Set Intensity on LPER

Cardinal Headings/Box Methods

Poor Visibility Consider a Wedge of Airspace Off Navaid with DME Defining Ends

**Brief Altitudes** 

Discuss Lobes and Circle the Target to Verify Location

Wing Null, Set Volume to Clock Position

Contact Local Law Enforcement For Support

\*10. Comm Out Air-to-Ground Communications

GT Will Signal Comm Failure By Stopping (Day)

GT Turn Off Headlights/Activate Flashers (Night)

Ground Team Will Turn in Direction of Aircraft at Intersections

GT will Monitor 122.775 on LPER for Backup

GT Will Wave for Message Received (Day)

GT Will Flash Headlights for Message Received (Night)

A distant circling aircraft means travel to that position

Flashing Landing Light Indicates Message Received

#### \*11. Airdrop (Only to Prevent Loss of Life)

Prep Kit with Surveyors Tape or glowstick (at night)

Fly a Traffic Pattern Into the Wind at 800 Feet

Look for Threats and Hazards

Establish a Stable Platform (75 Kts/10 Degrees)

2 Mile Final with "Left Turn, Right Turn" and

"Stop Turn" from Observer

Descend to Drop Altitude

Observer Preps the Drop, Window Open

Release Streamer Prior to Target

Release Kit When Over Target (Forward throw will throw kit past them for Safety Reasons)

Do not climb or it could hit the tail

Do not positive G

Do not attempt to air score over pilot's shoulder

\*12. Low Level Disaster Relief Flight

Plot legs and determine controlling obstacles
Determine a minimum safe altitude providing 100 ft clearance
Set minimum altitude limits for each leg
Brief Crew on Visual Cues
Attempt to fly route one direction high alt then reverse course
lower

\*13. Proficiency Flight Profile Discuss Objectives Sequence of Events Discuss Simulated Emergencies Safety Limits

\*14. Orientation Flight Consideration
Complete Uniforms and ID cards for all Cadets
Review night and weather flight restrictions
Review Emergency Egress on the Ground
Demo Emergency Egress if the Cadets Have not Seen A Demo
Discuss Ways to deal with Airsickness
Discuss Flight Profile and Seat Swap

15. Survival
Equipment Review
Treat For Shock (Water)
First Aid
If remote stay with aircraft
Signal (Fire, Mirror, CD, Signal Panel - CLASS)
Activate ELT (Describe Operation)
Will to Survive

# 16. Emergency of the Day (Select the Calendar day and Briefly Discuss Your Actions)

17. Radio Failure 1. Engine Fire During Start 2. Lost Gas Cap In Flight 18. Flap Failure 3. Inadvertent IMC 19. Cabin Fire 4. Electrical Failure At Night 20. Electrical Fire 5. Pitot/Static Failure 21. Engine Roughness 6. Vacuum Failure 22. Vibration in Flight 7. Engine Fire in Flight 23. Aborted Takeoff 8. Bird Strike 24. Loss of Oil Press 9. Aborted Takeoff 25. Engine Temp Fail 10. Carbon Monoxide Poisoning 26. Low Vacuum 27. Ear Blockage 11. Elevator Locks in Flight 12. Hypoxia 28. Power Loss 13. Ditching 29. Thunderstorms

16. Fuel Starvation
17. Communications Flimsy - Fill Out As Much as Necessary to Ensure You Can Accomplish the MissionDesigned as a Reminder to help Gather Data
Aircraft Tail
Aircraft Callsign
Mission Base Callsign
Mission Base Phone
Base Freq's
GT Callsign
Wing HQ Phone
AFRCC Phone 1-800-851-3051
GT Vehicle Description
GT Rendezvous Location
Rendezvous Time Window Starts at and Closes at
Time Hack 202-762-1401
303-499-7111
762-4101 (DSN)
Codewords
Notes:

30. Lost Procedures

31. Radio Failure

14. Turbulence Penetration

15. Carb Icing